

SPECIES	SPECIES ADAPTABILITY 1 /		SPECIES PRODUCTIVITY 2 /	GRAZING PREFERENCE 3 /	STAND ESTABLISHMENT 4 /	FERTILIZER NEEDS 5 /			PH RANGE 6 /	DROUGHT TOLERANCE
	DRYLAND	IRRIGATED				N	P	K		
WARM SEASON GRASSES										
BIG BLUESTEM	7	-	5	7	2-3	0-1	0	0	6.0-7.5	FAIR-GOOD
KAW	7	-	6	7	2-3					FAIR-GOOD
PANNEE	7	-	6	7	2-3					FAIR-GOOD
ROUNTREE	7	-	6	7	2-3					FAIR-GOOD
EASTERN GAMAGRASS	8	-	10	8	2-4	0-3	0-2	0-1	5.5-7.5	FAIR
INDIANGRASS	7	-	5	7	1-3	0-1	0	0	5.5-7.5	FAIR
CHEYENNE	7	-	6	7	1-3					FAIR
NEBRASKA 54	7	-	6	7	1-3					FAIR
OSAGE	7	-	6	7	1-3					FAIR
RUNSEY	7	-	6	7	1-3					FAIR
SWITCHGRASS	8	-	5	5	1-2	0-2	0	0	5.5-8.0	GOOD
BLACKWELL	8	-	6	5	1-2					GOOD
CAVE-IN-ROCK	8	-	7	5	1-2					GOOD
KANLON	8	-	8	4	1-2					POOR
PATHFINDER	8	-	6	5	1-2					GOOD
TRAILBLAZER	8	-	6	6	1-2					GOOD
COOL SEASON GRASSES										
CREEPING FOXTAIL	8		6	7	1-2	1-2	1-2	0-2	5.5-7.0	POOR
GARRISON	8		7	7	1-2					POOR
ORCHARDGRASS	8		6	7	1-2	1-2	1-2	0-2	5.5-7.0	POOR
LATAR	8		7	7	1-2					POOR
REED CANARYGRASS	8		7	6	1-2	1-2	1-2	0-2	5.5-7.0	POOR
IOREED	8		8	6	1-2					POOR
RISE	8		8	6	1-2					POOR
TALL FESCUE	7		6	4	1	1-2	1-2	0-2	6.2-7.0	POOR
KENNY	7		7	4						POOR
KENTUCKY 31	7		7	4	1					POOR
MISSOURI 96	7		7	4	1					POOR
WHEATGRASS										
TALL	7		5	4	1-2	1-2	1-2	0-1	7.0-8.5	FAIR
JOSE	7		6	4	1-2					FAIR
WESTERN	7		4	5	1-3	0-1	0-1	0-1	6.5-8.5	GOOD
BARTON	7		5	5	1-3					GOOD

1 / ADAPTABILITY - 0=NOT ADAPTED, 1-3=POOR, 4-6=FAIR, 7-9=GOOD; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.

2 / SPECIES PRODUCTIVITY - A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.

3 / GRAZING PREFERENCE - SCALE 1 - 8, (1=POOR, 8=EXCELLENT).

4 / STAND ESTABLISHMENT - NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.

5 / FERTILIZER NEEDS - 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALWAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.

6 / PH RANGE - LOW AND HIGH PH RECOMMENDED FOR THE SPECIES.

SUITABILITY GROUP C-2

(Wet Clayey)

Description: Deep, very poorly drained soil with clayey surfaces and subsoils. Soils in this subgroup occur on floodplains and terraces which receive extra moisture from adjoining areas. The subsoil is very slowly permeable.

Limitations: These soils have a seasonal high water table during the winter and spring but are droughty during the summer.

Soils: Albaton silty clay
Wabash silty clay, silty clay loam

Recommended Species: See chart on next page.

SPECIES	SPECIES ADAPTABILITY 1 /		SPECIES PRODUCTIVITY 2 /	GRAZING PREFERENCE 3 /	STAND ESTABLISHMENT 4 /	FERTILIZER NEEDS 5 /			PH RANGE 6 /	DROUGHT TOLERANCE
	DRYLAND	IRRIGATED				N	P	K		
WARM SEASON GRASSES										
BIG BLUESTEM	6		5	7	2-3	0-1	0	0	6.0-7.5	FAIR-GOOD
KAW	6		6	7	2-3					FAIR-GOOD
PANNEE	6		6	7	2-3					FAIR-GOOD
ROUNTREE	6		6	7	2-3					FAIR-GOOD
SWITCHGRASS	7		5	5	1-2	0-2	0	0	5.5-6.0	GOOD
BLACKWELL	7		6	5	1-2					GOOD
CAVE-IN-ROCK	7		7	5	1-2					GOOD
KANLOW	7		8	4	1-2					POOR
PATHFINDER	7		6	5	1-2					GOOD
TRAILBLAZER	7		6	6	1-2					GOOD
COOL SEASON GRASSES										
CREEPING FOXTAIL	7		6	7	1-2	1-2	1-2	0-2	5.5-7.0	POOR
GARRISON	7		7	7	1-2					POOR
ORCHARDGRASS	7		6	7	1-2	1-2	1-2	0-2	5.5-7.0	POOR
LATAR	7		7	7	1-2					POOR
REED CANARYGRASS	7		7	6	1-2	1-2	1-2	0-2	5.5-7.0	POOR
IOREED	7		6	6	1-2					POOR
RISE	7		8	6	1-2					POOR
TALL FESCUE	7		6	4	1	1-2	1-2	0-2	6.2-7.0	POOR
KENNY	6		7	4	1					POOR
KENTUCKY 31	7		7	4	1					POOR
MISSOURI 96	7		7	4	1					POOR
WHEATGRASS										
TALL	7		5	4	1-2	1-2	1-2	0-1	7.0-8.5	FAIR
JOSE	7		6	4	1-2					FAIR
WESTERN	7		4	5	1-3	0-1	0-1	0-1	6.5-8.5	GOOD
BARTON	7		5	5	1-3					GOOD

1 / ADAPTABILITY - 0=NOT ADAPTED, 1-3=POOR, 4-6=FAIR, 7-9=GOOD; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.

2 / SPECIES PRODUCTIVITY - A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.

3 / GRAZING PREFERENCE - SCALE 1 - 8, (1=POOR, 8=EXCELLENT).

4 / STAND ESTABLISHMENT - NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.

5 / FERTILIZER NEEDS - 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALWAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.

6 / PH RANGE - LOW AND HIGH PH RECOMMENDED FOR THE SPECIES.

SUITABILITY GROUP E-1

(Shallow)

Description: Shallow, well drained or somewhat excessively drained soils with loamy surfaces and subsoils, over bedrock or other dense unfractured material. Soils in this group are underlain by bedrock at depths less than 20 inches.

Limitations: Shallow root zone and low available water capacity.

Soils: Basehor loam
Vinland silty clay loam, complex

Recommended Species: See chart on next page

SPECIES	SPECIES ADAPTABILITY 1 /		SPECIES PRODUCTIVITY 2 /	GRAZING PREFERENCE 3 /	STAND ESTABLISHMENT 4 /	FERTILIZER NEEDS 5 /			PH RANGE 6 /	DROUGHT TOLERANCE
	DRYLAND	IRRIGATED				N	P	K		
WARM SEASON GRASSES										
SIS BLUESTEM	7	0	5	7	2-3	0-1	0	0	6.0-7.5	FAIR-GOOD
KAN	7	0	6	7	2-3					FAIR-GOOD
PAWNEE	6	0	6	7	2-3					FAIR-GOOD
ROUNTREE	7	0	6	7	2-3					FAIR-GOOD
INDIANGRASS	7	0	5	7	1-3	0-1	0	0	5.5-7.5	FAIR
CHEYENNE	6	0	6	7	1-3					FAIR
NEBRASKA 54	7	0	6	7	1-3					FAIR
OSAGE	7	0	6	7	1-3					FAIR
RUNSEY	7	0	6	7	1-3					FAIR
SIDEOTS GRAMA	8	0	3	5	1-3	0-1	0	0	6.0-7.5	GOOD
EL RENO	8	0	4	5	1-3					GOOD
TRAILWAY	8	0	4	5	1-3					GOOD
SWITCHGRASS	7	0	5	5	1-2	0-2	0	0	5.5-8.0	GOOD
BLACKWELL	7	0	6	5	1-2					GOOD
CAVE-IN-ROCK	6	0	7	5	1-2					GOOD
PATHFINDER	7	0	6	5	1-2					GOOD
TRAILBLAZER	7	0	6	6	1-2					GOOD
COOL SEASON GRASSES										
SMOOTH BROMEGRASS	5	0	6	7	1	1-2	1-2	0-2	5.5-7.0	FAIR
ACHENBACH	5	0	7	7	1					FAIR
LINCOLN	5	0	7	7	1					FAIR
SOUTHLAND	5	0	7	7	1					FAIR
TALL FESCUE	3	0	6	4	1	1-2	1-2	0-2	6.2-7.0	POOR
KENNY	2	0	7	4	1					POOR
KENTUCKY 31	3	0	7	4	1					POOR
MISSOURI 96	3	0	7	4						POOR
LEGUMES										
ALFALFA (STANDARD)	6	0	10	8		0-1	1-3	1-3	6.5-8.0	GOOD
(RHIZOMATOUS)	5	0	7	8	1-2	0-1	1-3	1-2	6.5-8.0	GOOD
CROWN VETCH	6	0	8	5	1-3	0-1	0-2	1-2	6.5-8.0	FAIR
EMERALD	6	0	8	5	1-3					FAIR

1 / ADAPTABILITY - 0=NOT ADAPTED, 1-3=POOR, 4-6=FAIR, 7-9=GOOD; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.

2 / SPECIES PRODUCTIVITY - A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.

3 / GRAZING PREFERENCE - SCALE 1 - 8, (1=POOR, 8=EXCELLENT).

4 / STAND ESTABLISHMENT - NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.

5 / FERTILIZER NEEDS - 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALWAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.

6 / PH RANGE - LOW AND HIGH PH RECOMMENDED FOR THE SPECIES.

SUITABILITY GROUP F-1

(Loamy-Moderately Deep)

Description: Moderately deep, well drained or moderately well drained soils with loamy surfaces and subsoils. Soils in this subgroup occur on uplands and are underlain by bedrock at depths of 20 to 40 inches.

Limitations: Restricted root depth due to bedrock.

Soils: Labette silty clay loam
Sibleyville loam, complex
Vinland variant
Wamego silty clay loam

Recommended Species: See chart on next page.

SPECIES	SPECIES ADAPTABILITY 1 /		SPECIES PRODUCTIVITY 2 /	GRAZING PREFERENCE 3 /	STAND ESTABLISHMENT 4 /	FERTILIZER NEEDS 5 /			Ph RANGE 6 /	DROUGHT TOLERANCE
	DRYLAND	IRRIGATED				N	P	K		
WARM SEASON GRASSES										
BIG BLUESTEM	7	7	5	7	2-3	0-1	0	0	6.0-7.5	FAIR-6000
KAN	7	7	6	7	2-3					FAIR-6000
PAWNEE	6	6	6	7	2-3					FAIR-6000
ROUNTREE	7	7	6	7	2-3					FAIR-6000
INDIANGRASS	7	7	5	7	1-3	0-1	0	0	5.5-7.5	FAIR
CHEYENNE	7	7	6	7	1-3					FAIR
NEBRASKA 54	7	7	6	7	1-3					FAIR
OSAGE	7	7	6	7	1-3					FAIR
RUMSEY	7	7	6	7	1-3					FAIR
SWITCHGRASS	7	7	5	5	1-2	0-2	0	0	5.5-8.0	GOOD
BLACKWELL	7	7	6	5	1-2					GOOD
CAVE-IN-ROCK	7	7	7	5	1-2					GOOD
PATHFINDER	7	7	6	5	1-2					GOOD
TRAILBLAZER	7	7	6	6	1-2					GOOD
COOL SEASON GRASSES										
SMOOTH BROMEGRASS	7	7	6	7		1-2	1-2	0-2	5.5-7.0	FAIR
ACHENBACH	7	7	7	7	1					FAIR
LINCOLN	7	7	7	7	1					FAIR
SOUTHLAND	7	7	7	7	1					FAIR
TALL FESCUE	6	7	6	4	1	1-2	1-2	0-2	6.2-7.0	POOR
KENNY	5	6	7	4	1					POOR
KENTUCKY 31	6	7	7	4	1					POOR
MISSOURI 96	6	7	7	4	1					POOR
WHEATGRASS										
WESTERN	6	6	4	5	1-3	0-1	0-1	0-1	6.5-8.5	GOOD
BARTON	6	6	5	5	1-3					GOOD
LEGUMES										
ALFALFA (STANDARD)	7	7	10	8	1	0-1	1-3	1-3	6.5-8.0	GOOD
(RHIZOMATOUS)	6	6	7	8	1-2	0-1	1-3	1-2	6.5-8.0	GOOD
BIRDSFOOT TREFOIL	4	6	8	8	1	0-1	1-3	1-3	6.2-7.0	FAIR
CROWNWETCH	6	6	8	5	1-3	0-1	0-2	1-2	6.5-8.0	FAIR
EMERALD	6	6	8	5	1-3					FAIR
RED CLOVER	5	6	6	8	1	0-1	1-3	1-3	6.5-8.0	POOR
SWEET CLOVER	5	6	7	7		0-1	0-2	1-2	6.5-8.0	FAIR

1 / ADAPTABILITY - 0=NOT ADAPTED, 1-3=POOR, 4-6=FAIR, 7-9=GOOD; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.

2 / SPECIES PRODUCTIVITY - A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.

3 / GRAZING PREFERENCE - SCALE 1 - 8, (1=POOR, 8=EXCELLENT).

4 / STAND ESTABLISHMENT - NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.

5 / FERTILIZER NEEDS - 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALWAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.

6 / Ph RANGE - LOW AND HIGH Ph RECOMMENDED FOR THE SPECIES.

SUITABILITY GROUP F-2

(Limy-Moderately Deep)

- Description:** Moderately deep, well drained or moderately well drained soils with loamy surfaces and loamy to clayey subsoils. Soils in this subgroup occur on uplands and have calcareous surface and subsurface layers and are underlain with calcareous bedrock at depths of 20 to 40 inches.
- Limitations:** Soils in this group are slightly affected by limy surfaces and subsoils and have a restricted root depth.
- Soils:** Clime complex

Recommended Species: See chart on next page.

LRA: 106 & 107
SUITABILITY GROUP: F-2

-2-

SPECIES	SPECIES ADAPTABILITY 1 /		SPECIES PRODUCTIVITY 2 /	GRAZING PREFERENCE 3 /	STAND ESTABLISHMENT 4 /	FERTILIZER NEEDS 5 /			PH RANGE 6 /	DROUGHT TOLERANCE
	DRYLAND	IRRIGATED				N	P	K		
WARM SEASON GRASSES										
BIG BLUESTEM	7	0	5	7	2-3	0-1	0	0	6.0-7.5	FAIR-GOOD
KAW	7	0	6	7	2-3					FAIR-GOOD
PAWNEE	6	0	6	7	2-3					FAIR-GOOD
ROUNTREE	7	0	6	7	2-3					FAIR-GOOD
INDIANGRASS	7	0	5	7	1-3	0-1	0	0	5.5-7.5	FAIR
CHEYENNE	7	0	6	7	1-3					FAIR
NEBRASKA 54	7	0	6	7	1-3					FAIR
OSAGE	7	0	6	7	1-3					FAIR
RUMSEY	7	0	6	7	1-3					FAIR
SWITCHGRASS	7	0	5	5	1-2	0-2	0	0	5.5-8.0	GOOD
BLACKWELL	7	0	6	5	1-2					GOOD
CAVE-IN-ROCK	7	0	7	5	1-2					GOOD
PATHFINDER	7	0	6	5	1-2					GOOD
TRAILBLAZER	7	0	6	6	1-2					GOOD
COOL SEASON GRASSES										
SMOOTH BROMEGRASS	7	0	6	7	1	1-2	1-2	0-2	5.5-7.0	FAIR
ACHENBACH	7	0	7	7	1					FAIR
LINCOLN	7	0	7	7	1					FAIR
SOUTHLAND	7	0	7	7	1					FAIR
WHEATGRASS										
WESTERN	6	0	4	5	1-3	0-1	0-1	0-1	6.5-8.5	GOOD
BARTON	6	0	5	5	1-3					GOOD
LEGUMES										
ALFALFA (STANDARD)	7	0	10	8	1	0-1	1-3	1-3	6.5-8.0	GOOD
(RHIZOMATOUS)	6	0	7	8	1-2	0-1	1-3	1-2	6.5-8.0	GOOD
BIRDSFOOT TREFOIL	4	0	8	8	1	0-1	1-3	1-3	6.2-7.0	FAIR
CROWNVELTCH	6	0	8	5	1-3	0-1	0-2	1-2	6.5-8.0	FAIR
EMERALD	6	0	8	5	1-3					FAIR
RED CLOVER	5	0	6	8	1	0-1	1-3	1-3	6.5-8.0	POOR
SWEET CLOVER	5	0	7	7	1	0-1	0-2	1-2	6.5-8.0	FAIR

1 / ADAPTABILITY - 0=NOT ADAPTED, 1-3=POOR, 4-6=FAIR, 7-9=GOOD; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.

2 / SPECIES PRODUCTIVITY - A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.

3 / GRAZING PREFERENCE - SCALE 1 - 8, (1=POOR, 8=EXCELLENT).

4 / STAND ESTABLISHMENT - NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.

5 / FERTILIZER NEEDS - 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALWAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.

6 / PH RANGE - LOW AND HIGH PH RECOMMENDED FOR THE SPECIES.

SUITABILITY GROUP F-4

(Clayey)

Description: Deep and moderately deep, well drained to somewhat poorly drained soils with loamy or clayey surfaces and clayey subsoils. (If surface texture is loamy, it is less than 14 inches over dense clayey subsoil.)

Limitations: Slowly or very slowly permeable clayey subsoils.

Soils: Gosport silty clay loam, complex
Haig silty clay loam
Oska silty clay loam
Wymore silty clay loam

Recommended Species: See chart on next page.

SPECIES	SPECIES ADAPTABILITY 1 /		SPECIES PRODUCTIVITY 2 /	GRAZING PREFERENCE 3 /	STAND ESTABLISHMENT 4 /	FERTILIZER NEEDS 5 /			PH RANGE 6 /	DROUGHT TOLERANCE
	DRYLAND	IRRIGATED				N	P	K		
WARM SEASON GRASSES										
BIG BLUESTEM	7	7	5	7	2-3	0-1	0	0	6.0-7.5	FAIR-GOOD
KAW	7	7	6	7	2-3					FAIR-GOOD
PAWNEE	6	6	6	7	2-3					FAIR-GOOD
ROUNTREE	7	7	6	7	2-3					FAIR-GOOD
INDIANGRASS	7	7	5	7	1-3	0-1	0	0	5.5-7.5	FAIR
CHEYENNE	7	7	6	7	1-3					FAIR
NEBRASKA 54	7	7	6	7	1-3					FAIR
OSAGE	7	7	6	7	1-3					FAIR
RUMSEY	7	7	6	7	1-3					FAIR
SWITCHGRASS	6	7	5	5	1-2	0-2	0	0	5.5-8.0	GOOD
BLACKWELL	6	7	6	5	1-2					GOOD
DAVE-IN-ROCK	5	7	7	5	1-2					GOOD
PATHFINDER	6	7	6	5	1-2					GOOD
TRAILBLAZER	6	7	6	6	1-2					GOOD
COOL SEASON GRASSES										
ORCHARDGRASS	5	6	6	7	1-2	1-2	1-2	0-2	5.5-7.0	POOR
LATAR	5	6	7	7	1-2					POOR
SMOOTH BROMEGRASS	7	7	6	7	1	1-2	1-2	0-2	5.5-7.0	FAIR
ACHENBACH	7	7	7	7	1					FAIR
LINCOLN	7	7	7	7	1					FAIR
SOUTHLAND	7	7	7	7						FAIR
TALL FESCUE	6	7	6	4	1	1-2	1-2	0-2	6.2-7.0	POOR
KENNY	5	6	7	4	1					POOR
KENTUCKY 31	6	7	7	4	1					POOR
MISSOURI 96	6	7	7	4	1					POOR
WHEATGRASSES										
WESTERN	6	6	4	5	1-3	0-1	0-	0-1	6.5-8.5	GOOD
BARTON	6	6	5	5	1-3					GOOD

1 / ADAPTABILITY - 0=NOT ADAPTED, 1-3=POOR, 4-6=FAIR, 7-9=GOOD; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.

2 / SPECIES PRODUCTIVITY - A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.

3 / GRAZING PREFERENCE - SCALE 1 - 8, (1=POOR, 8=EXCELLENT).

4 / STAND ESTABLISHMENT - NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.

5 / FERTILIZER NEEDS - 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALWAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.

6 / PH RANGE - LOW AND HIGH PH RECOMMENDED FOR THE SPECIES.

SUITABILITY GROUP G-2

(Sodic)

Description: Deep, moderately well drained soils with silty surfaces and dense clay subsoils. These soils contain accumulations of alkali or sodium salts.

Limitations: Excessive alkalinity or sodium salts.

Soils: Dwight silt loam

Recommended Species: See chart on next page.

SPECIES	SPECIES ADAPTABILITY 1 /		SPECIES PRODUCTIVITY 2 /	GRAZING PREFERENCE 3 /	STAND ESTABLISHMENT 4 /	FERTILIZER NEEDS 5 /			PH RANGE 6 /	DROUGHT TOLERANCE
	DRYLAND	IRRIGATED				N	P	K		
WARM SEASON GRASSES										
BIG BLUESTEM	7	0	5	7	2-3	0-1	0	0	6.0-7.5	FAIR-GOOD
KAW	7	0	6	7	2-3					FAIR-GOOD
INDIANGRASS	7	0	5	7	1-3	0-1	0	0	5.5-7.5	FAIR
NEBRASKA 54	6	0	6	7	1-3					FAIR
OSAGE	7	0	6	7	1-3					FAIR
RUMSEY	6	0	6	7	1-3					FAIR
SIDEOTS GRAMA	7	0	3	5	1-3	0-1	0	0	6.0-7.5	GOOD
EL RENG	7	0	4	5	1-3					GOOD
TRAILWAY	7	0	4	5	1-3					GOOD
SWITCHGRASS	7	0	5	5	1-2	0-2	0	0	5.5-8.0	GOOD
BLACKWELL	7	0	6	5	1-2					GOOD
CAVE-IN-ROCK	6	0	7	5	1-2					GOOD
PATFINDER	7	0	6	5	1-2					GOOD
TRAILBLAZER	7	0	6	6	1-2					GOOD
COOL SEASON GRASSES										
SMOOTH BROMEGRASS	5	0	6	7	1	1-2	1-2	0-2	5.5-7.0	FAIR
ACHENBACH	5	0	7	7						FAIR
LINCOLN	5	0	7	7						FAIR
SOUTHLAND	5	0	7	7						FAIR
TALL FESCUE	6	0	6	4	1	1-2	1-2	0-2	6.2-7.0	POOR
KENNY	5	0	7	4	1					POOR
KENTUCKY 31	6	0	7	4	1					POOR
MISSOURI 96	6	0	7	4						POOR
WHEATGRASS										
WESTERN	6	0	4	5	1-3	0-1	0-1	0-1	6.5-8.5	GOOD
BARTON	6	0	5	5	1-3					GOOD

1 / ADAPTABILITY - 0=NOT ADAPTED, 1-3=POOR, 4-6=FAIR, 7-9=GOOD; N=NORTH OF THE SMOXY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.

2 / SPECIES PRODUCTIVITY - A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.

3 / GRAZING PREFERENCE - SCALE 1 - 8, (1=POOR, 8=EXCELLENT).

4 / STAND ESTABLISHMENT - NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.

5 / FERTILIZER NEEDS - 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALWAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.

6 / PH RANGE - LOW AND HIGH PH RECOMMENDED FOR THE SPECIES.

SUITABILITY GROUP H

(Not Suitable)

- Description: This group includes various textures and phases of soils and land types which occur on a wide range of slopes and topography.
- Limitations: Soils in this group are generally too shallow, erosive, gravelly, stony, or rocky; too steep, droughty, wet, clayey, or saline and alkaline for good survival or growth of pasture species.
- Soils: Basehor stony fine sandy loam, complex
Borrow pits
Breaks
Gravelly land
Kipson silty clay loam, complex
Sogn complex

Recommended Species: See Standards and Specifications for Critical Area Planting (342).
